

1. FENSHTAT, N. [1.]
2. USSR (600)
4. Tractors--Repairing
7. Eliminating seasonality in repairing tractors and agricultural machinery and agricultural machinery at machine-tractor stations and state farms engaged in cotton growing, Khlopkovodstvo, 3, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953,  
Uncl.

1.1  
MUKHAMEDZHANOV, M.; FERSTAT, N.; RZHEVSKIY, G.; ZHURAVLEV, B.S., redaktor;  
SOLYANOVA, N.N., redaktor; RAKHMATULLIN, F., tekhnicheskiy redaktor

[Checkrow cultivation of cotton] Kvadratno-gnezdovaia kul'tura  
khlopotchatanika. Tashkent, Go.s izd-vo UzSSR, 1955. 112 p. (MIRA 9:8)  
(Cotton growing)

PERSHTAT, Naum Il'ich, zasluzhennyj mekhanizator Uzbekskoy SSR; FRENKIN,  
Vladimir Mikhaylovich, zasluzhennyj mekhanizator Uzbekskoy SSR;  
GRUSHIN, A., red.; ABRASOV, T., tekhnred.

[Over-all mechanization of cotton-growing in Uzbekistan]  
Kompleksnaja mekhanizatsija khlopkovodstva v Uzbekistane.  
Tashkent, Gos. izd-vo Uzbekskoi SSR, 1960. 63 p.

(MIRA 14:3)

(Uzbekistan--Cotton growing) (Farm mechanization)

137-58-6-11481

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 33 (USSR)

AUTHOR: Fershtenfel'd, A.A.

TITLE: Automation of Certain Hydrometallurgical Processes at the  
Noril'sk Kombinat (Avtomatizatsiya nekotorykh protsessov  
gidrometallurgii na Noril'skom kombinate)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii  
SSSR, 1957, Nr 2, pp 20-23

ABSTRACT: The system of automatic control (SAC) for hydrometallurgical processes of precipitation of metal consists of the following interrelated automatic regulating devices (A): An A for piezoelectrical measurement of the level of the salt solution in a tank and a temperature A of electronic balanced-bridge type functioning as a unit with the first A and influencing the delivery of steam to the tank directly and that of hypochlorite through a special metering device. An overall diagram of the SAC for hydrometallurgical reduction and the electric circuitry are presented.

Card 1/1

- 1. Metals--Reduction
- 2. Control systems--Design
- 3. Control systems--Equipment

M.L.

14(5)

SOV/112-59-5-9631

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 169 (USSR)

AUTHOR: Shteyn, S. A., Fershtenfel'd, A. A., Mednis, E. F., and  
Kritskiy, Ye. L.

TITLE: Comparative Tests of Various Methods of Automatic Control for Ball Mills

PERIODICAL: Obogashcheniye rud, 1957, Nr 6, pp 55-66

ABSTRACT: Three methods of automatic control of mill operation were tested at the Noril'sk concentrating plant: constant weight of feed, constant noise, and constant circulating load; the tests were conducted from January, 1956, to April, 1957. A short description and a comparison of the above control methods are given. Seventeen illustrations.

A.A.S.

Card 1/1

SADYKHOV, A.G., starshiy nauchnyy sotrudnik (baku, Balakhanskoye shosse, 1937-y kvartal, d.1, blok, 3, kv.19); FERSHTER, B.V.

Development of cancer on old scars and following chronic osteomyelitis. Ortop. travm. i protez. 24 no.254-57 F'63.  
(MIRA 16:10)

1. Iz ortopedicheskogo otdeleniya (zav. - kand.med.nauk A.G. Sadykhov) Bakinskogo instituta travmatologii i ortopedii (dir. - kand.med.nauk A.A.Ismailov).

MARMER, Eduard Nikitovich; FERSHTER, Levit Moiseyevich; SAPAROVA, A.L.,  
red.; VORONIN, K.P., tekhn.red.

[Design of vacuum systems of electric furnaces] Raschet i  
proektirovaniye vakuumnykh sistem elektropechei. Moskva, Gos.  
energ.izd-vo, 1960. 97 p. (Biblioteka elektrotermista, no.3).

(MIRA 14:2)

(Electric furnaces) (Vacuum apparatus)

FERSHTER, L.M.

PHASE I BOOK EXPLOITATION

SOV/5038

Marmer, Eduard Nikitovich, and Levit Moiseyevich Fershter

Raschet i proyektirovaniye vakuumnykh sistem elektropechey (Calculating and Designing the Vacuum Systems in Electric Furnaces) Moscow, Gosenergoizdat, 1960. 97 p. 7,000 copies printed. (Series: Biblioteka elektrotermista, vyp. 3)

Ed. (of the Series): A.D. Svenchanskiy; Ed.: A.L. Saparova; Tech. Ed.: K.P. Voronin.

PURPOSE: This booklet is intended for engineers and technicians of plants and scientific research institutes.

COVERAGE: The authors review methods of selecting vacuum equipment, present characteristics of this equipment, and discuss its location in vacuum systems of electric furnaces. Basic theoretical principles applied in calculating vacuum systems are discussed briefly. Examples of designing vacuum systems for various electric furnaces are also included. No personalities are mentioned. There are 40 references: 28 Soviet, 10 English, 1 French, and 1 German.

Card 1/3

Calculating and Designing the Vacuum Systems (Cont.)

SOV/5038

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## Calculating and Designing the Vacuum Systems (Cont.) SOV/5038

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## Bibliography

97

AVAILABLE: Library of Congress

Card 3/3

VK/wrc/gmp  
5-17-61

L 07380-67 EWT(m)/EWP(t)/ETI IJP(c) JD  
 ACC N# AP6027753 (N)

SOURCE CODE: UR/0370/66/000/004/0163/0166

AUTHOR: Vigdorovich, V. N. (Moscow); Fershter, L. M. (Moscow)

18

ORG: None

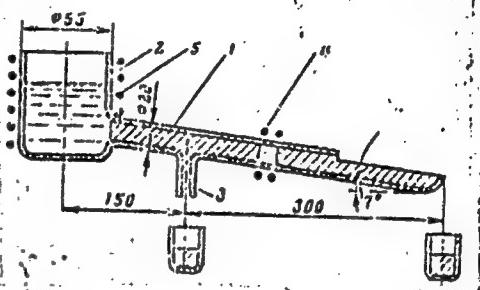
TITLE: Continuous zone-transport recrystallization in single-stage installations

SOURCE: AN SSSR. Izvestiya. Metally, no. 4, 1966, 163-166

TOPIC TAGS: zone refining, tin, metal purification

ABSTRACT: Data are given from experiments of tin purification by the zone-transport method

on the single-stage unit shown in the figure. Quartz tube 1 with a diameter of 20 mm has a longitudinal cutout on one end, is connected to quartz vessel 2 on the other end and has a tubular branch 3. The melting zone (70-80 mm long) is produced by electric resistance heater 4 which moves at a rate of 5 cm/hr (from right to left). A second resistance heater 5 is used for melting the initial material and maintaining it in the molten state (250-265°C). Tables are given showing the results of spectral analysis for determination of copper, silver and lead



Card 1/2

UDC: 669.2/8.43

L 07380..67  
ACC NR: AP6027753

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impurities for fifteen passes through this single-stage equipment. The repeatability of the results, the homogeneity of the material and the efficiency factors achieved are encouraging and indicate that further work should be done on perfecting this type of equipment for continuous zone refining. Orig. art. has: 3 figures, 3 tables.

SUB CODE: 11/ SUBM DATE: 08Jan65/ ORIG REF: 007/ OTH REF: 005  
13/

Card 212 egrs

www.schmiedebecker.de

卷之三

5. ~~2007/06/100-001/0067/0012~~

Pa-ah-tman, Yu, H.

1

3

of artificial earth satellites in January 1964

Geodesiya i kartografiya, no. 11, 1964, 67-77

~~1957-1960~~ artificial earth satellite, satellite photography, geodesy, geodetic

卷之三

—*Journal of the Royal Society of Medicine*, 1955, 48, 1001-1002.

But the past observations of the moon's orbit are: 1) observation of satellite; 2) direct measurement of orbit coordinates in the year 1957.

152

L 1965-65

ACQUISITION NO: AP4042472

...Pygmalion stereo camera. This is a British  
camera and is described as is the Baker-Nann camera, a device for accurate  
but slow observation equipment. It is used by the British Asconia Movie-theodolite. The designation of "harmonic"  
is also given to the film frame.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 06

SUB CODE: RS,SV

NO REP SOV: 003

OTHER: 001

Card 2/2

PERSHTER, S.I., inzhener.

Coefficient of demand of groups of welding transformers. Prom.  
energ. 12 no. 7:31-32 Jl '57. (MIRA 10:8)  
(Electric welding) (Electric transformers)

SPEVAK, L.B.; FERSHTER, S.I.

Concerning M.R.Naifel'd's article "Pressing problems in the prevention of injuries from electricity." Prom. energ. 18 no.9:54-55 S '63.  
(MIRA 16:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva nechernozemnoy zony SSSR (for Spevak). 2. Giproneftstroy, Kuybyshev (for Fershter).

MURAV'YEV, V.P., kand.tekhn.nauk; FERSHTER, S.I., inzh.

Start of three-phase motors from a network with limited power  
handling capacity. Prom.energ. 19 no. 4:18-20 Ap '64.  
(MIRA 17:5)

1. Kemerovskiy gornyy institut (for Murav'yev). 2. Giproneftstroy,  
g. Kuybyshev (for Fershter).

FERSHTUDT, I.I.; FAYNBERG, Z.L.

Make wider use of the new equipment. Tekst.prom. 21 no.5:27-30  
My '61. (MIRA 15:1)  
(Spinning machinery)

Cand Med Sci

FERSHTUDT, V. I.

Dissertation: "Relief Measures in the Cases of the Acute Diseases of Abdominal Organs Requiring Immediate Surgical Treatment."  
12/6/50

First Moscow Order of Lenin Medical Inst.

SO Vecheryaya Moskva  
Sum 71

EXCERPTA MEDICA Sec 17 Vol 5/3 Public Health Mar 59

846. STUDY OF THE INCIDENCE OF LUNG CANCER (Russian text) - Fersht V.I. - SOVETS. MED. 1958, 1 (130-135) Tables 2  
108 cases observed at the oncological dispensary of Tula (town and district) are analysed, as well as the oncological statistics for this district from 1950-1954. Seventy-two of the 108 cases of bronchial cancer in 1954 reported to the dispensary; 17 of them were referred to other institutions for further treatment. Thirteen cases of lung cancer in Tula were first recognized in hospital shortly before death. From 1950 to 1954, the incidence of lung cancer increased 6-fold (more in the town than in the country). Most cases occurred in the age group 50-70. Men were affected 6 times as often as women. The average survival of the patients after establishment of the diagnosis was 4 yr. Only 4 of the 108 patients were considered operable; 2 of these accepted operation. Proposals are made for improvement of the work of the oncological dispensaries, viz.: (1) health education; (2) early referral of cases to trained specialists; (3) postgraduate instruction of GP's concerning lung cancer; (4) comparative investigations in large towns, especially industrial towns; (5) collection of exact anamnestic data to evaluate environmental causal factors (industrial gases, dust, cigarette smoking, etc.).

Paul - Magdeburg (XVII, 5, 16)

Iz kafedry organizatsii zdravookhreneniya (zav. - dotsent S. V. Kurashov) I Moskovskogo ordena Lenina Meditsinskogo instituta imeni I.M.Sechenova

FERSHTUDT, V.I.

Problems of lung cancer morbidity among the population of Moscow,  
1955.- 1958. Trudy 1-M.I 16:51-62 '62. (MIRA 17:4)

1. Iz kafedry organizatsii zdravookhraneniya (zav. - dotsent  
S.V.Kurashov) I Moskovskogo ordena Lenina meditsinskogo instituta  
imeni Sechenova.

RODOV, Ya.I.; KOSAGOVSKIY, I.V.; GOMEL'SKAYA, G.L.; LAVROVA, I.T.;  
SOBOLEVSKIY, G.N.; SHTRAUS, Z.E.; TROSHINA, I.M.; FERSHTUDT, V.I.

"Theory and organization of the Soviet public health system"  
by G.A. Batkis and L.G. Lekarev. Reviewed by IA.I. Rodov and  
others. Zdrav. Ros. Feder. 6 no.4:41-42 Ap '62. (MIRA 15:4)  
(PUBLIC HEALTH) (BATKIS, G.A.) (LEKAREV, L.G.)

GOMEL'SKAYA, G.L.; KOSAGOVSKIY, I.V.; LAVROVA, I.G.; RODOV, Ya.I.;  
SOBOLEVSKIY, G.N.; TROSHINA, I.M.; FERSHTUDT, V.I.;  
SHTRAUS, Z.E.; MEL'NIKOV, Ye.B., red.

[Problems for practical work on the organization of public health] Zadaniia k prakticheskim zaniatiiam po organizatsii  
zdravookhranenia. Izd.2., ispr. i dop. Moskva, 1963. 167 p.  
(MIRA 16:12)

1. Moscow. Pervyy meditsinskiy institut. Kafedra organizatsii  
zdravookhraneniya. 2. Kafedra organizatsii zdravookhraneniya  
Pervogo moskovskogo meditsinskogo instituta (for all except  
Mel'nikov).

(PUBLIC HEALTH—HANDBOOKS, MANUALS, ETC.)

1. FERSHTUT, N. S.; TORBAN, S. S.
2. USSR (600)
4. Ice Fishing
7. Mechanization of ice fishing, Ryb. khiz., 29, no. 3, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. FERSHTUT, N.S.
2. USSR (600)
4. Nets
7. Self-opening trap for a conical pick-up net. Ryb. khoz. 29, No. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

FERSMAN A. A.

84. CIRCUITS FOR SUPPRESSING PULSED INTERFERENCE IN  
RADIO RECEIVERS.—V. E. Mnydselev & Yu. A.  
Fersman. (*Izvestiya Elektroprom. SSSR*, Tom  
No. 10, 1940, pp. 44–50.)

There are three types of circuits for suppressing interference from industrial sources, which usually takes the form of short pulses of great intensity: (1) circuits reducing the interference amplitude to the level of the maximum signal amplitude; (2) circuits reducing to zero the voltages of both the signal and interference at the moment when interference takes place, and (3) circuits reducing the interference voltage to the level which the signal had when interference appeared. Circuits suitable for each type of operation, including those developed in Russia, are shown and discussed. The third type is considered to be the most satisfactory, but all three types operate only if the interference voltage exceeds that of the signal during 100% modulation. Experimental curves are plotted (Figs. 8 & 9) showing a probable distribution of amplitudes per second corresponding to interference from various industrial sources. It is clear from these curves that the circuits discussed may not be effective under certain conditions. Accordingly, a circuit (Fig. 10) is proposed in which the sensitivity is automatically regulated according to the depth of the signal modulation. In conclusion, circuits with automatic adjustment of sensitivity depending on the carrier-wave voltage are briefly discussed.

IL'GEKIT, F.E.; SHAPIRO, D.N.; FOMENKO, L.A.; KARPINSKIY, M.A.; VERSMAN, A.A.; PEVNITSKIY, V.P. [reviewers]; LIUTOV, S.A. [author].

"Industrial interference with radio reception and its control." S.A. Liutov.  
Reviewed by F.E. Il'gekit, D.N. Shapiro, L.A. Fomenko, M.A. Karpinskii, A.A. Persman, V.P. Pevnitskii. Elektrичество no.12:85-87 D '53. (MIRA 6:11)

1. Tsentral'naya laboratoriya po bor'be s industrial'nymi radiopomekhami  
MESEP SSSR (for Il'gekit, Shapiro and Fomenko). 2. Leningradskiy elektro-  
tekhnicheskiy institut (for Karpinskiy). 3. Leningradskoye vyssheye more-  
khodnoye uchilishche (for Persman and Pevnitskii).  
(Radio--Interference) (Liutov, S.A.)

RUBINSHTAYN, Yakov Moiseyevich [deceased]; STARIK, M.Ye., dotsent, retsensent;  
BORODIN, N.I., dotsent, kand.tekhn.nauk, red.; FERSMAN, A.A.,  
dotsent, kand.tekhn.nauk, red.; CHERNYAK, S.I., dotsent, kand.tekhn.  
nauk, red.; DENISOV, K.N., red.izd-va; DROZHZHINA, L.P., tekhn.red.

[Radio Wave propagation and antenna feeding devices] Rasprostranenie  
radiovoln i antenno-fidernye ustroistva. Leningrad, Izd-vo "Morskoi  
transport," 1960. 387 p. (MIRA 13:?)  
(Radio waves) (Antennas (Electronics))

6.9.90

4196?  
S/194/62/000/009/082/100  
D413/D308

AUTHOR: Fersman, A. A.

TITLE: Interference eliminator units

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 9, 1962, abstract 9-7-138 s (Byul. tekhn.-ekon. in-  
form. M-vo morsk. flota SSSR, no. 3(42), 1961, 82-86)

TEXT: The interference eliminator units for the marine communica-  
tions receivers 'Volna' and AC-2 (AS-2), designed to attenuate  
pulsed interference, can be connected in without any modification  
or retuning of the receivers. Pulsed interference is suppressed in  
the units by limiters according to the signal level in an IF ampli-  
fier. / Abstracter's note: Complete translation. /

Card 1/1

ACCESSION NR: AP4041022

S/0120/64/000/003/0081/0084

AUTHOR: Fersman, A. A.; Krivetskiy, A. A.

TITLE: Analyzer of the probability density of irregular phase difference

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1964, 81-84

TOPIC TAGS: phase difference analyzer, phase difference probability density

ABSTRACT: An amplitude-independent method for measuring the probability density of the irregular phase difference between a random-phase voltage and a reference voltage of the same frequency is suggested. The method is based on a special device (which includes a ferrite-core nonlinear coil) for isolating a zero phase in the reference and test channels. A block diagram (see Enclosure 1) of the instrument and a simplified connection diagram of the zero-phase isolator are supplied. Orig. art. has: 3 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 05Jun63

ENCL: 01

SUB CODE: EC

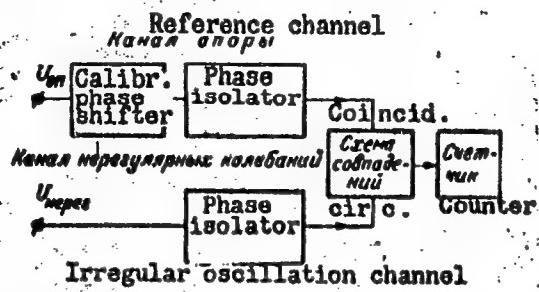
NO REF SOV: 001

OTHER: 000

Card 1/2

ACCESSION NR: AP4041022

ENCLOSURE: 1



Block diagram of an analyzer of the probability density of irregular phase difference.

Card 2/2

FERSMAN, A.Ye., akademik

Lomonosov in the history of Russian science. Príroda 50  
no.11;14-20 N '61. (MIRA 14:10)  
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

VERSMAN, A.Ye., akademik

Time...atom...thought... (excerpts from an unfinished book).  
Tekh.mol. 31 no.2:2 '63. (MIRA 16:6)  
(Atoms)

FERSMAN, Aleksandr Yevgen'yevich, akademik; MAMUROVSKIY, A.A. [decensed], otd.  
red.; BELOV, N.V., Akademik, red.; VINOGRADOV, A.P., aka  
demik, red.; SHCHERBAKOV, D.I., akademik, red.; SAUKOV, A.A.,  
red.; SHCHERBINA, V.V., doktor geol.-min. nauk, red.; POPOVA,  
T.S., red. izd-va; POPOVA, S.T., red.; PRUSAKOVA, T.A., tekhn.  
red.; GUSEVA, A.P., tekhn. red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad. nauk  
SSSR. Vol.7. 1962. 592 p. (MIRA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Saukov).
2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury  
SSSR (for Mamurovskiy).

(Precious stones)

FERSMAN, A.Ye., akademik

Konstantin Eduardovich Tsiolkovskii (to be continued). Tekh.  
mol. 31 no.3:8-9 '63. (MIRA 16:6)

(Tsiolkovskii, Konstantin Eduardovich, 1857-1935)

FERSMAN, A.Ye., akademik

Konstantin Eduardovich Tsiolkovskii (conclusion). Tekh.mol. 31  
no.4:24-25 '63. (MIRA 16:6)  
(Tsiolkovskii, Konstantin Eduardovich, 1857-1935)

FERSMAN, A.Ye.; FERSMAN, Ye.M.

Tietta; from the past of the Khibiny Mountains. Priroda 54 no.6:  
96-103 Je '65. (MIRA 18:6)

FERSMAN, B. A.

FERSMAN, B. A. - "Experimental investigation of the laws of distribution of the signal and the calculation of nonlinear distortions along the radio-broadcast beam." Leningrad, 1955. Min Communications USSR. Leningrad Electrical Engineering Inst of Communications imeni Professor M. A. Bonch-Bruyevich. (Dissertations for degree of Candidate of Technical Sciences.)

SO: Knizhnaya letopis', No 48. 26 November 1955. Moscow.

FERSMAN, B.A.

AUTHOR PETRZHAK, K.A., BAK, M.A., FERSMAN, B.A., PA - 2718  
TITLE Determination of the Absolute Number of Neutrons emitted by a Radium-Beryllium Source by Comparison with a Photoneutron-Deuterium Source.  
(Opradeleniye absolutnogo chisla neytronov, ispuskayemykh radiy-beriliyevym istochnikom, srovneniem s fotoneytronnym deuteriyevym istochnikom., Russian)  
PERIODICAL Atomsnaiia Energiia, 1957, Vol 2, Nr 4, pp 319-326 (U.S.S.R.)  
Received 5/1957 Reviewed 6/1957

ABSTRACT The authors develop a comparatively simple method realizable in any laboratory for the gauging of neutron sources. For the purpose of determining this absolute neutron number two problems have to be solved. 1) Determination of the absolute number of photoprottons produced in a given volume with gaseous deuterium at a known pressure and at a known temperature. The gas is then replaced by heavy water and by this a so-called primary neutronstandard is produced which emits a certain number of neutrons. 2) By comparison with this primary standard the absolute number of neutrons is obtained which is emitted within the time unit of the Ra-Be-source. Experimental arrangement is discussed on the basis of a drawing. The ionization chamber consists of a nickel hollow sphere and a hollow brass finger serves as collecting electrode. Recording of the photoprottons is given step by step. The relative neutron intensities of the  $\gamma$ -D-source and of the Ra- $\alpha$ -Be source were determined by comparison of the integral spatial distributions of slow neutrons in water. The neutrons were slowed down by water which is con-

Card 1/2

Determination of the Absolute Number of Neutrons PA - 2718  
emitted by a Radium-Beryllium Source by Comparison with a Photo-  
neutron-Deuterium Source.

tained in a ~1 m high cylindrical vessel.  
Results. The authors carried out 6 measuring series for the determination of the absolute number of the photoprottons produced in the chamber under the influence exercised by  $\gamma$ -rays. The intensities of the Ra- $\alpha$ -Be-source computed by means of these measuring values are shown together in a table. The absolute number of the neutrons emitted from the radium-beryllium source investigated here amounts to  $(9,4 \pm 0,6) \cdot 10^5$ . For the purpose of improving accuracy the development of this method is being continued.  
(7 ill. and 1 table)

ASSOCIATION  
PRESENTED BY  
SUBMITTED  
AVAILABLE Library of Congress  
Card 2/2

Fersman, B.A.

46-3-9/15

AUTHOR: Fersman, B.A.

TITLE: An Experimental Study of Statistical Properties of Broadcast Musical and Speech Signals (Eksperimental'noye issledovaniye statisticheskikh svoystv muzykal'nykh i rechevykh radioveshchatel'nykh signalov)

PERIODICAL: Akusticheskiy Zhurnal, 1957, Vol.III, Nr 3, pp.274-281  
(USSR)

ABSTRACT: Methods of mathematical statistics have recently been applied in investigations of various processes which occur in radiotechnical devices. In particular, in the case of broadcasting, there is a tendency to use fundamentally new methods of studying nonlinear distortions, based on the fact that the broadcast radio signal can be looked upon as a random stationary process (Refs.1-4). When carrying out such studies it is necessary to know the distribution function of the probability density for instantaneous values of the signal. At present such distribution functions for real signals are not very well known. It is still unknown whether a radio broadcast signal has a stable distribution and, if so, what is the minimum duration of the signal for

Card 1/4

46-3-9/15

An Experimental Study of Statistical Properties of Broadcast Musical  
and Speech Signals.

which the distribution can be considered stable. The elucidation of these two questions is the object of the present work. To study the distribution function of probability density of instantaneous values of radio broadcast signals, an apparatus was developed which is shown in Fig.1. The principle of the apparatus is as follows: a blocking generator, 1, produces pulses of constant height and a definite repetition frequency. These pulses then enter the modulator, 2, and are mixed with the input signal, 3, which is being investigated. The signal, 3, is first passed through the amplifier, 4, whose amplification can be varied. The output of the modulator will consist of pulses with the original repetition frequency but having an envelope corresponding to the form of the input signal, 3. In order to obtain a sufficiently good resolution the modulated signal is amplified and is examined by a differential discriminator, 5. The differential discriminator consists of 2 limiters, 6 and 7, and a cascade of anticoincidences, 8. The limiters 6 and 7 differ from each other only in that their limiting thresholds differ by a constant amount. As a result of this, at the output of the differential discrimina-

Card 2/4

46-3-9/15

An Experimental Study of Statistical Properties of Broadcast Musical  
and Speech Signals.

tor one obtains the pulses only if the magnitude of the input pulse is larger than the threshold of the first limiter but less than that of the second. This "window" of the discriminator can be moved along the voltage scale at constant window width. The pulses obtained from the discriminator are recorded by a counting unit, 9. Using this apparatus, the statistical properties of real radio broadcast signals were studied. Experiments were carried out using tape recorders so that a given programme could be repeated the required number of times. The distribution curves were taken for a symphonic orchestra, a variety orchestra, pianoforte and speech. The following conclusions were reached: the distribution of instantaneous values of a radio broadcast signal does not obey the normal distribution law but is well represented by a Cauchy distribution. A radio broadcast musical signal has a distribution of the form  $\exp(-|x|/x_0)$  where the parameter  $x_0$  depends on the "type" of music. A radio broadcast signal of more than 2 minutes' duration has a stable distribution. For engineering purposes where all

Card 3/4

46-3-9/15

An Experimental Study of Statistical Properties of Broadcast Musical  
and Speech Signals.

the possible types of signals have to be considered it is  
convenient to use a "mean" distribution which can be looked  
upon as normal. The work was carried out under the direct-  
ion of A.V. Rimsky-Korsakov. There are 9 figures, and 8  
references, of which 1 is English and the rest are Russian.

ASSOCIATION: Leningrad Electrotechnical Institute of Communication  
im.M.A.Bonch-Bruyevich (Leningradskiy elektrotekhnicheskiy  
institut svyazi im.M.A.Bonch-Bruyevicha)

SUBMITTED: December 20, 1956.

AVAILABLE: Library of Congress.

Card 4/4

FERSMAN, B.A.; PAK, I.N.; ZAYEZDNIY, A.M., red.; GAL'CHINSKAYA, V.V.,  
tekhn. red.

[Tables and formulas of sums of trigonometric series of the type

$\sum_{n=1}^{\infty} \frac{I_n(r)}{n^2+a^2} \cos nx$  and  $\sum_{n=1}^{\infty} \frac{nI_n(r)}{n^2+a^2} \sin nx$  textbook] Tablitsy i for-

mly summ trigonometricheskikh riedov vidov

$\sum_{n=1}^{\infty} \frac{I_n(r)}{n^2+a^2} \cos nx$  i  $\sum_{n=1}^{\infty} \frac{nI_n(r)}{n^2+a^2} \sin nx$ ; uchebnoe posobie. Pod red.

A.M.Zaezdnogo. Leningrad, 1961. 47 p. (MIRA 15:12)

1. Leningrad. Elektrotekhnicheskiy institut svyazi.  
(Fourier series) (Mathematics—Tables, etc.)

ZAYEZDNYY, A.M.; FERSMAN, B.A., retsentent; KHANOVICH, I.G., red.

[Principles of statistical radio engineering; a manual  
(chapters 3-6)] Osnovy statisticheskoi radiotekhniki;  
uchebnoe posobie (par.3-6). Leningrad, Leningr. elektro-  
tekhn. in-t sviazi, 1964. 104 p. (MIRA 18:8)

FERSMAN, A.Ye.; FERSMAN, Ye.M.

Tietta; from the past of the Khibiny Mountains. Priroda 54 no.6:  
96-103 Je '65. (MIRA 18:6)

FERST, V.

Pneumatic controllers of temperature for TS and TN air conditioners. p. 76.

ZDRAVOTNI TECHNIKA A VZDUCHOTECHNIKA. (Ceskoslovenska akademie ved. Ceskoslovenska vedecka technika spolecnost pro zdravotni techniku a vzduchotechniku) Praha, Czechoslovakia. Vol 2, no. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959. Uncl.

L 42985-66 - EWP(m)/EWT(1)

ACC NR: AP6012155

SOURCE CODE: UR/0413/66/000/007/0072/0072

INVENTOR: Festenshteyn, M. S.; Krysin, Yu. P.; Zagarov, V. V.

53  
B

ORG: none

TITLE: Device for testing samples of materials for thermal shock. Class 42,  
No. 180388

10

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966,  
72-73

TOPIC TAGS: thermal fatigue, fatigue test, combustion chamber, material testing

ABSTRACT: An Author Certificate has been issued describing a device for testing samples of materials for thermal shock in gas flow. The device contains a combustion chamber with a programming element for controlling the supply of fuel to the combustion chamber. To determine the resistivity of samples to thermal fatigue due to thermal overload alternating with time, the actuating mechanism of the programming element is designed in the shape of a slide valve arrangement with a camshaft-type electromechanical gear (see Fig. 1). Orig. art. has: 1 figure. [Translation]

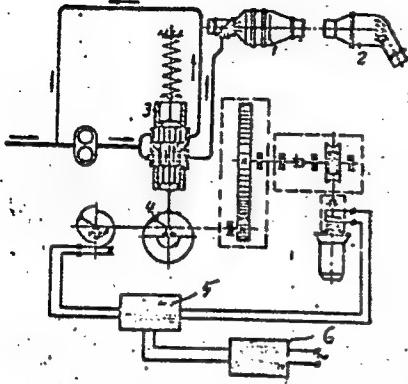
[NT]

Card 1/2

UDC: 620. 178. 38-529

L 42985-66

ACC NR: AP6012155



O  
Fig. 1. Device for testing samples of materials for thermal shock.  
1—Combustion chamber;  
2—blow-through mechanism;  
3—slide valve arrangement;  
4—camshaft gear; 5—time relay; 6—power-supply unit.

SUB CODE: 13/ SUBM DATE: 03Jul64/

Card 2/2 hs

*FERSTER*

POLAND/Microbiology - Microorganisms Pathogenic to Humans and  
Animals.

F-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 99.  
Author : Lyakhovich, Romanovskiy, Ferster  
Inst :  
Title : Investigation of Staphylococci Carrying.  
Orig Pub : Med. doswiad. i mikrobiol., 1956, 8, No 4, 463-472

Abstract : 1007 children aged up to 14 years were investigated regarding carrying of staphylococci. In 516 children (51.24%) a culture of pyogenic coagulase positive staphylococcus was isolated. In 181 (35.09%) children staphylococci were found in the pharynx and nose, in 231 (44.76%) in the nose only, and in 104 (20.15%) in the pharynx only. In 232 (44.96%) of the 516 carriers penicillin-resistant staphylococci strains were isolated. Of 685 coagulase positive strains, 397 (58%) were sensitive to penicillin and 211 (30.8%) were resistant to

Card 1/2

POLAND/Microbiology - Microorganisms Pathogenic to Humans and  
Animals.

F-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 99. APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000412920003-0"

streptomycin. Carrying of pyogenic staphylococcus possessing antagonistic properties comprised 7.8%. Some antagonistic strains were resistant to penicillin.

Card 2/2

FERSTER, N.P.

Characteristics of tactile-motor orientation [with summary in English].  
Vop.psikhол. 4 no.4:53-57 Jl-Ag '58. (MIRA 11:11)

1. Institut psichologii Akademii pedagogicheskikh nauk RSFSR.  
(Orientation)

KUNAYEV, A.M.; FERT, M.I.

Cathodic polarization during the electrolysis of sulfuric acid  
solutions of vanadium and zinc. Trudy Inst. met. i chm. AN  
Kazakh. SSR 14:53-67 '65.

Investigating cathodic polarization during the electrolysis  
of alkaline solutions of vanadium and zinc. Ibid.:58-61  
(MIRA 18:10)

DORYWALSKI, Jozef; FERTALA, Kozimierz

The influence of some methods of sowing corn on yields. Rocznik nauk  
roln rosl 80 no.3:495-512 '60. (EEAI 9:10)

1. Katedra Ogólnej Uprawy Rolnej i Roslin Wyższej Szkoły Rolniczej  
w Poznaniu i Instytut Uprawy, Nawożenia i Gleboznawstwa.  
(Poland--Corn (Maize))

ERTEK, Otakar; MANYCH, Jiri

Rubrophytosis (T. purpureum Bang 1910). Cesk. derm. 36 no. 7:469-474  
'61.

1. Dermatovenerologicka klinika LFHKU, prednosta prof. MUDr. J. Konopík,  
Dr. Sc. Laborator pro lekarskou mykologii katedry epidemiologie LFHKU,  
vedouci katedry prof. MUDr. K. Raska, Dr. Sc.

(RINGWORM)

The Use of Exothermic Sensors  
by Dr. R. E. Conner  
Chemical Materials Project  
at the K-1 Laboratory  
information provided by Dr. R. E. Conner  
contains up to date information  
on the use of exothermic sensors  
in the field.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000412920003-0

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000412920003-0"

~~PERTEL'~~, G.Ya.

Boring apparatus for rotary boring of water wells. Vod.i san.tekh.  
no.1:13-15 Ja '57. (MLRA 10:3)  
(Boring)

*Fertel, G.Ya.*AUTHOR: Fertel', G.Ya., Engineer

99-58-3-3/12

TITLE: Practical Methods for Removing Clay Obstructions in the Water-Bearing Layers of Artesian Wells (Prakticheskiye metody razglinizatsii vodonosnykh plastov v artezianskikh skvazhinakh)

PERIODICAL: Gidrotehnika i Melioratsiya, 1958, # 3, pp 10-17 (USSR)

ABSTRACT: The building of water-supply systems, especially in highly-mechanized agricultural organizations, requires special attention by persons in charge of the artesian borings. All over the country, hundreds of inoperative wells are found, because the authorities in charge did not observe basic precautions during boring operations. Experienced personnel have found, that in rotary boring, when all the conditions and the method of removal of clay obstructions in the water-bearing layers are observed, the results are always positive. Different kinds of drilling fluid must be used in different cases. The degree of viscosity of the drilling fluid also is important. A fluid with a low viscosity penetrates deeper into the layer and forms a crust that is difficult to remove, while a fluid with a high viscosity penetrates only slightly, and the crust can be easily removed. Different methods of removing clay

Card 1/2

99-58-3-3/12  
Practical Methods for Removing Clay Obstructions in the Water-bearing  
Layers of Artesian Bore Holes.

obstructions and detailed information on each case is given.  
There are 10 figures.

AVAILABLE: Library of Congress

Card 2/2

FERTEL', G.Ya.

Construction of water wells by the method of rotary boring  
should be improved. Vod. i san. tekhn. no.8:30-31 Ag '58.  
(Boring) (Welle) (MIRA 11:9)

FERTEL'MEYSTER, Ya.N.; OVSIYENKO, P.I.; ZENINA, M.N.

Quality of grease for hoisting cables, Trudy MakNII 12: Vop.  
gor. elektromekh. no. 4:367-373 '61. (MIRA 16:6)

(Wire rope)  
(Lubrication and lubricants)

FERTEL'MEYSTGR, Ya. N.  
CA

Unmicrobalance. I. M. Korenman and Ya. N.  
Fertel'meister. Zavodskaya Lab. 13, 788-20(1949).  
An ultramicrobalance is described which is capable of  
accurate weighings in the 20-000 γ region with 3-5%  
accuracy. The principle is the usual quartz or steel fiber  
mounted horizontally and observed by a telescope. The  
use in weighings, density determinations, and analytical procedures  
is described. G. M. Kosolapoff

Gor'kiy State U.

C.A. FERTEL' MEYSTER Ya. N.

Torsion ultramicrobalances. I. M. Korenman, Ya. N.  
Fertel'meister, and A. P. Rostokin. Zavodskaya Lab. 16,  
800-6(1980); cf. C.A. 64, 2e. General modifications of  
ultramicrobalances are described, with discussion of basic  
operational principles. Balances capable of weighing 1 γ  
specimens with 10-15% error are described as are the pro-  
cedures in their use. O. M. Knolepoff

FERTEL' MEYSTER, Ya. N.; BABICHENKO, I. L.; DUN, D. L.

Radiographic determination of quartz in rock and coal powder. Zav.  
lab. 21 no. 6:702-705 '55. (MIRA 8:9)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti  
rabot v gornoy promyshlennosti  
(Quartz) (Dust--Analysis)

Evaluation of some properties of foods and carbohydrates related to their glycation characteristics. Y. N. Pental

referred to their geological characteristics. Mr. N. G. Foster and V. L. K. Smith, of the U.S. Geological Survey, who accompanied the expedition, made a series of measurements and took photographs of the various microscopically different types of sand found in the different layers. The following table gives the results of these measurements:

The determination of small amounts of carbon monoxide  
in P. Novikova, Ya. N. Fe  
and research from 1981  
Luchistaya Lab. 23. 288-4  
CO detn were compared  
by conductometric detn in

BEKIRBAEV, D.B.; GRODEL', G.S.; GUL'SHIN, P.A.; KLEPIKOVA, M.S.; PETRU-KHIN, P.M.; POLYANSKIY, I.P.; RASSOLOV, N.I.; TARASOVA, A.A.; FERTAL'MEISTER, Ya.N.; CHERVINSKIY, M.S.; SHANOVSKAYA, S.S.; KLIMANOV, A.D., otv.red.; ZHUKOV, V.V., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Control of coal and rock dust in mines] Bor'ba s ugol'noi i porod-noi pyl'iu v shakhtakh. Moskva, Gos.sauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 499 p.  
(Mine dusts)

(MIRA 13:3)

FERTEL'MEYSTER, Ya.N., kand. khim. nauk; KRIGMAN, F.Ye., inzh.; KRIVITSKIY, M.D.; VARAKIN, A.M.

Using gamma rays to measure the thickness of the settled layer of coal dust. Ugol' 34 no.1:48-50 Ja '59. (MIRA 12:1)  
(Mine dusts) (Coal mines and mining--Safety measures)  
(Gamma rays--Industrial applications)

8/044/62/000/011/017/064  
A060/A000

AUTHOR: Fertig, Margareta

TITLE: On the behavior of integrals of linear differential equations with constant coefficients which are functions of a parameter

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, 42, abstract 11B178  
(Studia Univ. Babeş-Bolyai. Math.-phys., 1960, no. 1, 121 - 130;  
Rumanian; summaries in Russian, French)

TEXT: The author considers the linear equation with constant coefficients  
 $\epsilon y^{(n)} + \lambda_1(\epsilon) y^{(n-1)} + \dots + \lambda_n(\epsilon) y = f(x), \quad (1)$

where  $\epsilon$  is a small parameter. The solution  $y(x, \epsilon)$  of that equation is investigated, which satisfies the initial condition  $y^{(i)}(0, \epsilon) = B_i(\epsilon)$  ( $i = 0, \dots, n-1$ ). Let

$$\lambda_1(0) = 0, \quad \lambda_2(0) \neq 0, \quad \lim_{\epsilon \rightarrow 0} \frac{\lambda_1(\epsilon)}{\epsilon^q} = a \quad (q > 0); \quad \lim_{\epsilon \rightarrow 0} B_i(\epsilon) \rightarrow y_0^{(i)},$$

Card 1/2

S/044/62/000/011/017/064  
On the behavior of integrals of linear differential ... A060/A000

$$(i = 0, 1, \dots, n - 3), \lim_{\epsilon \rightarrow 0} B_{n-2}(\epsilon) = B_{n-2}^0, \lim_{\epsilon \rightarrow 0} B_{n-1}(\epsilon) = B_{n-1}^0.$$

It is demonstrated that, if  $q \neq \frac{1}{2}$ ,  $a > 0$  and  $\lambda_2(0) > 0$ , then  $\lim_{\epsilon \rightarrow 0} y(x, \epsilon) = \bar{y}(x)$ , where  $\bar{y}(x)$  is defined by the degenerate equation obtained from (1), if in it one formally sets  $\epsilon = 0$ , with the initial condition  $\bar{y}^{(1)}(0) = y_0^{(i)}$  ( $i = 0, \dots, n - 3$ ). If  $q = \frac{1}{2}$  then the proposition holds in the presence of the additional condition  $\lambda_2(0) > \frac{a^2}{4}$ . If  $q \geq 1$  then the propagation remains valid also for  $a < 0$ .

A.B. Vasil'yeva

[Abstracter's note: Complete translation]

Card 2/2

163400

37594

S/044/62/000/004/031/099  
C111/C444

AUTHOR: Fertig, M.

TITLE: On the behavior of the solutions of a system of differential equations with a small parameter

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 40, abstract 4B177. (Matematika (RPR), 1960, 2, no. 2, 217 - 252)

TEXT: Considered is the system with the small parameter

$$\varepsilon \dot{x} = X(x, u) + \varepsilon V(x, u, \varepsilon), \quad \dot{u} = U(x, u, \varepsilon) \quad (1)$$

(x, u being vectors). Let

$$H_i(x, u) = h_i \quad (i = 1, \dots, n - 1)$$

be  $n - 1$  independent first integrals for the system  $\dot{x} = X(x, u)$  (where  $u$  is considered a constant parameter), the solutions of which are  $x = \bar{x}(\tau + C, h_1, \dots, h_{n-1}, u)$  ( $C$  being an arbitrary constant).It is supposed that there exists a system of periodic functions  $y(\tau, h_1, \dots, h_{n-1}, u)$  such that

Card 1/2

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C111/C444

On the behavior of the solutions ...

$$\lim_{\tau \rightarrow \infty} [y(\tau, h_i, u) - x(\tau, h_i, u)] = 0.$$

It is proved that then for  $\varepsilon \rightarrow 0$  for the solutions  $x(t, \varepsilon)$ ,  $y(t, \varepsilon)$  of the system (1) holds

$$H_i(x(t, \varepsilon), u(t, \varepsilon)) \rightarrow \bar{h}_i(t), u(t, \varepsilon) \rightarrow \bar{u}(t),$$

where  $\bar{h}_i$ ,  $\bar{u}_i$  are solutions of the system  $\dot{\bar{h}}_i = H_i(\bar{h}, \bar{u})$ ,  $\dot{\bar{u}} = U(\bar{h}, \bar{u})$ , the right hands of which are obtained by averaging with respect to the time the functions

$$\sum \frac{\partial H_i}{\partial x_j} v_j + \sum \frac{\partial H_i}{\partial u_j} U_j \text{ and } U,$$

in the arguments of which  $y(\tau, \bar{h}, \bar{u})$  are substituted.

[Abstracter's note: Complete translation.]

Card 2/2

16.5400  
24 4300

37597

S/044/62/000/004/034/099  
C111/C333

AUTHOR: Fertig Frenkel, Margareta

TITLE: The asymptotic behavior of the integrals of a differential equation of hydrodynamics of viscous fluids

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 43,  
abstract 43186. ("Comun. Acad., RPR", 1961, 11, no. 6,  
631-637)

TEXT: The differential equation

$$\varepsilon \frac{dy}{dx} = \frac{1}{h^2(x)} \left( 1 - \frac{c(\varepsilon)}{\frac{1}{y} h(x)} \right), \quad \varepsilon > 0, \quad y(0, \varepsilon) = y_0$$

is considered. It is proved: If  $\lim_{\varepsilon \rightarrow 0} c(\varepsilon) = c_0$ , where  $0 < c_0 < y_0^{\frac{1}{\gamma}} h(0)$ ,  
then  $\lim_{\varepsilon \rightarrow 0} y(x, \varepsilon) = +\infty$ . If, however,  $c_0 > y_0^{\frac{1}{\gamma}} h(0)$ , then there

Card 1/2

The asymptotic behavior of the ...

S/044/62/000/004/034/099  
C111/C333

exists no interval  $(0, x')$ ,  $x' > 0$  independent of  $\varepsilon$ , on which  $y(x, \varepsilon) > 0$  for every  $\varepsilon$ . f

[Abstracter's note: Complete translation.]

Card 2/2

VERTIG, Stanislaw.

Growth patterns of bacilli cultivated on chicken egg yolk.  
Arch. immun. ter. dosw. 8 no.1:77-100 1960.

1. Katedra Mikrobiologii Wydziału Weterynaryjnego, Wyższej  
Szkoły Rolniczej we Wrocławiu, Kierownik: Prof. dr A. Skurski,  
(MYCOBACTERIUM TUBERCULOSIS culture)

FERTIG, Stanislaw

Area irrigated with sewage. Its hygienic and sanitary evaluation.  
II. Examination of rodents from fields irrigated with sewage for  
the presence of tubercle bacilli. Acta microbiol. pol. 10 no.4:  
433-437 '61.

1. Z Katedry Mikrobiologii Sydzialu Weterynaryjnego Wyzszej Szkoły  
Rolniczej we Wrocławiu. Acta microbiol. pol. 10 no.4:433-437 '61.  
(SEWAGE microbiol) (RODENTS microbiol)  
(MYCOBACTERIUM TUBERCULOSIS)

FERTIG, S.

Variety, Vegetable, Fertilizers, Vol. VIII, No. 1, Jan. 66 (continued)

(3) 147

9. "Use of Dactoprotein in Injecting Aqueous Subcutaneous Cystic Fibrosis Patients and in Cystic Fibrosis of the Pancreas and Other Organs," by Dr. W. G. Hartung, Dr. H. G. Schiefer (Kiel), and Dr. Hartung, No. 267, pp. 267-277.
10. "Trematode Antidiabetics in cattle in the Fluvelac Project," by J. Okusawa and L. Szilagyi, in "Proceedings, Sixth Congress for Veterinary Medicine (Veterinärmedizinische Veterinärkongress) in Innsbruck, Austria, Dr. J. Baumgärtel, editor (Kievovsky) (English summary) pp. 23-29.
11. "Studies on the Carrier State of Schistosoma and Schistosome Infection" (to be published in full in Acta Parasitologica Academiae Scientiarum Hungaricae) by Dr. L. Ujhelyi, Dr. L. Ujhelyi, Dr. L. Ujhelyi (Hungary) (English summary) pp. 23-29.
12. "A Case of Intestinal Schistosomiasis in Chileans and an Attempt to Treat It," by J. Serrano, et al., "Revista Argentina de Medicina Veterinaria," No. 1, 1965, pp. 23-31.
13. "Pathobiology of the Herd in Cattle Caused by Hyperoestrogenism," by Dr. J. Serrano, et al., "Revista Argentina de Medicina Veterinaria," No. 1, 1965, pp. 23-31.
14. "Pathobiology of the Herd in Cattle Caused by Hyperoestrogenism," by Dr. J. Serrano, et al., "Revista Argentina de Medicina Veterinaria," No. 1, 1965, pp. 23-31.
15. "Studies on the Preservation of Bovine Semen VI. Attempts at Improving the Conditions of Preservation at Room Temperature," by J. Jaskorski, Dr. S. Kowalewski, Dr. J. P. Kowalewski, and Dr. Tadeusz (Zygmunt) Olszak, et al., "Przeglad Rolnictwa i Hodowli Zwierząt," No. 1, 1965, pp. 31-34.
16. "Preservation in Phosphate and Glucose Salts of Semen," by Dr. J. Jaskorski and Stanislaw Szlachta of Warsaw, p. 31.
17. "Preservation in Phosphate and Glucose Salts of Semen," by Dr. J. Jaskorski and Stanislaw Szlachta of Warsaw, p. 31.
18. "Effectiveness of Various Preservatives on Semen," by Dr. J. Jaskorski and Stanislaw Szlachta of Warsaw, p. 31.
19. "Studies on the Preservation of Bovine Semen VII. Attempts at Improving the Conditions of Preservation at Room Temperature," by J. Jaskorski, Dr. S. Kowalewski, Dr. J. P. Kowalewski, and Dr. Tadeusz (Zygmunt) Olszak, et al., "Przeglad Rolnictwa i Hodowli Zwierząt," No. 1, 1965, pp. 31-34.
20. "Preservation of Semen in Phosphate and Glucose Salts," by Dr. J. Jaskorski and Stanislaw Szlachta of Warsaw, p. 31.
21. "Preservation of Semen in Phosphate and Glucose Salts," by Dr. J. Jaskorski and Stanislaw Szlachta of Warsaw, p. 31.

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FERTIG, Stanislaw; SIELICKA, Stanislawa

Phagocytosis of variants of *Pasteurella pseudotuberculosis*.  
Acta microbiol. pol. 12 no.4:293-295 '63.

1. From the Department of Microbiology, Faculty of Veterinary  
Medicine, Wroclaw School of Agriculture.  
(PASTEURELLA INFECTIONS) (PHAGOCYTOSIS)

## POLAND

FERTIG, Stanislaw, JASINSKA Stanislawa, KUPROWSKI, Marian, and WACHNIK, Zenon; Chair of Microbiology (Katedra Mikrobiologii) (Director: Prof. Dr. Adam SKURSKI), Chair of Epizootiology (Katedra Epizootiologii) (Director: Prof. Dr. Tadeusz SOBIECH), and the Chair of Pathological Anatomy (Katedra Anatomii Patologicznej) (Director: Prof. Dr. Aleksander ZAKRZEWSKI), all of the WSR [Wysza Szkoła Rolnicza, Higher School of Agriculture] in Wrocław

"Diagnosis of Listeriosis in Sheep."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 7, Jul 63, pp 386-391

Abstract: [Authors' English summary] Authors describe centers of listeriosis in sheep in areas where the disease was not previously recorded. They find that histological examinations are of great diagnostic value, and that focal, purulent inflammation of the cerebral stem appears to be a typical pathognomonic characteristic of this disease in sheep. There are 26 references: 4 each Soviet and Polish, 3 Western, and 14 German.

1/1

FERTIK, I.M.; LIBERTAL', R.Sh.; PLEMYANNIKOVA, M.Ye.

Tuberculin-trypan test; increase of sensitivity in the method of detection of allergy. Probl. tuberk., Moskva no.1:46-51 Jan-Feb 52.  
(CLML 21:5)

1. Docent for Fertik. 2. Of the Children's Division (Head--Docent I.M. Fertik) and of the Department of Microbiology (Consultant--Prof. V.M. Berman), Leningrad Scientific-Research Tuberculosis Institute (Director--A.D. Semenov).

✓ Effect of temperature on the brittle strength of  
Steel ~~STRUCTURE~~ ~~STRUCTURE~~

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The Brinell hardness of the case of all specimens was in the range 804 to 941. The depth of the nitrided case was 0.57 mm for condition (2). For condition (1) the

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"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000412920003-0

*Method of Evaluating Evidence*

N. A. Fertig  
SAC, FBI, San Francisco  
Date: 10/10/68  
1. Definition of evidence  
2. Identification of evidence  
3. Examination of evidence  
4. Comparison of evidence  
5. Evaluation of evidence  
6. Determination of significance  
7. Recommendation  
8. Report

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AUTHOR: Fertik, N. A. (Engineer)

TITLE: Increased Brittleness of Nitrided Layer of Steel  
38KhMYuA

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,  
1960, Nr 3, pp 13-16 (USSR)

ABSTRACT: This is a description of experimental tests conducted for verification of causes of increased brittleness in nitrided layers of steel. Such layers are subject to "point chipping" during grinding (the depth of such chipping varies from a few microns to 0.020-0.50 mm). The brittleness is usually evaluated by the shape of diamond pyramid impressions. Large internal stresses are formed in the nitrided layer. The magnitude of these stresses is affected by the initial structure of steel (the method of heat treatment), by the condition of nitrided surface, by the geometry of workpiece, and the method of nitriding. It is supposed that the internal stresses, augmented by the external stresses

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of Steel 38KhMYuA

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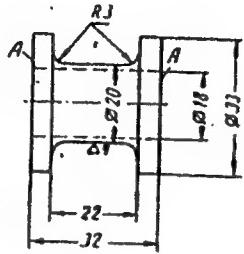
are one of the causes of increased brittleness of nitrided layer, as tested by the diamond pyramid. The tests were conducted on 38KhMYuA steel (composition not given). Six 230-mm-long rods were cut from 38-mm-diameter rod. From the rods Nr 1, 3, and 4 were made six samples from each, three of which had a hole (see Fig. 1). From rods Nr 2 and 5 were made six samples with holes. The samples with holes were nitrided at 525° C for a period of 20 hr and at 540° C for 15 hr. The samples without holes, after tin-plating of faces, were nitrided at 525° C for 25 hr and at 540° C for 45 hr. The results of tests are described. The author arrived at the following conclusions. (1) The brittleness of nitrided layer during indentation into it of diamond pyramid (average value of 10 impressions) can serve as a criterion for evaluation of the tendency of nitrided layer to "rash" during grinding. (2) The brittleness evaluated by the shape of the diamond pyramid impressions

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Fig. 1. Sample for testing  
brittleness of the nitrided  
layer.



depends not only on the true brittle strength of the layer but on the magnitude of compression stresses in it as well. With other conditions equal, the higher the compression stresses in the layer, the higher is the possibility of "rash" formation during grinding. (3) The formation of "rash" on nitrided layer is due to compression stresses caused by the sharp heating of the surface. (4) The increase of hardness in the

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core of a workpiece made from nitrided steel is followed by the increase of nitrogen content and of compression stresses in the layer, which results in the increase of its brittleness. (5) The more complete the hardening (the higher is the hardness after hardening), the lower is the brittleness of

nitrided layer. Hardening from 900° C, instead of 950° C, increases the brittle strength of the layer in bending test and lowers its brittleness during the tests with diamond pyramid. (6) The lowering of layer's brittleness, which is observed with the increase of nitriding temperature, is explained by lowering of compression stresses. There are 7 figures and 4 Soviet references.

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Сообщение по упрощению деталей машин. 1963. № 10. Упрощение

The principal advantages of simplified design:

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electric furnace with automatic temperature regulation was used. The furnace

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CIA-RDP86-00513R000412920003-0

FERTIK, S. M.

"Research on Grounds in Poorly Conducting Soils," Elektrichestvo, 67, No.2, 1947  
Khar'kov Elektro-Tech. Inst.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000412920003-0"

FERTIK, S. N.

Fertik, S. N. "Commutation in a mechanical rectifier with contact-breaking choke coils", Sbornik nauch.-tekhn. statey Khar'k. elektrotekhn. in-ta, Issue 7, 1948, p. 76-96,- Bibliog: 5 items.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

FERTIK, S. M.

Fertik, S. M. "Induced erratic waves in a three-phase non-transposed transmission line", Sbornik nauch.-tekhn. statey Khar'k. elekrotekhn. in-ta, Issue 7, 1948, p. 319-27.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

*BK*  
Electricity & Electronics 33

944\* Mechanical Rectifiers of High Capacity. (Russian.)

S. M. Fertik, Elektrichesko, Jan. 1952, p. 83-85.

Presents a review of the above including American and Western European developments.

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SIROTINSKIY, Leonid Ivanovich. Prinimali uchastiye: RAZEVIG, D.V.,  
dotsent; VERESHCHAGIN, I.P., aspirant. FERTIK, S.M., retsen-  
zent; GONCHARENKO, G.M., red.; KORUZEV, N.N., tekhn.red.;  
LARIONOV, G.Ye., tekhn.red.

[Technology of high voltages] Tekhnika vysokikh napriazhenii.  
Moskva, Gos.energ.iad-vo. Pt.3, no.1. [Wave processes and  
internal overvoltages in electrical systems] Volnovye protsessy  
i vnutrennie perenapriazheniya v elektricheskikh sistemakh.  
1959. 365 p. (MIRA 12:9)  
(Electric engineering)

9(3)

SOV/143-59-5-3/19

AUTHORS: Leont'yev, L.B., Engineer, and Fertik, S.M., Docent

TITLE: Unattended Electron-Ray Oscillographs for Recording  
Single Pulses

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika,  
1959, Nr 5, pp 16-25 (USSR)

ABSTRACT: The authors describe the specific features of unattended  
ed electron-ray oscillographs for recording single  
pulses. One of the authors worked on such a device al-  
ready in 1940/41 together with N.A. Chebotarev, Can-  
didate of Technical Sciences who was at that time a  
student at KhETI. The authors describe a small-size  
unattended electron-ray oscillograph EMAO-2 of which  
the circuit diagram is shown in Figure 4. This device  
is designed for recording single pulses of a duration  
of up to 15 microseconds using ordinary 35 mm camera  
film. An 7L055 electron-ray tube was used whereby the  
electrode voltages were selected higher than indicat-  
ed in the factory data records. The voltage at the  
second anode was increased to 1,200 volts and at the

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third anode to 3,200 volts. Figures 5, 6 and 7 show photographs of this device. It has the dimensions of 20x18x23 cm and may be combined with a camera whereby the dimensions increase to 20x18x50 cm. During the period of 1953-1954 a normal-size unattended oscilloscope AEO-1 was developed with the participation of Docent A.L. Vayner. This device has the dimensions 90x24x100 cm and is combined with a "Zenit" camera using 35 mm film. The device may be used for investigating lightning protectors. The scanning duration is 15, 50 and 150 microseconds. The device has slave sweep and may be operated by radio. Batteries 6STE-128 and converter MA-250M provide the required power for about 5 hours of operation. The cameras used for the EMAO-2 and the AEO-1 use "Yupiter-3" lenses ( $F = 1:1.5$ ). The EMAO-2 may be also operated by radio.

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